

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000290

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F16L 55/045

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F15D, F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4154264 A (SCHALLER), 15 May 1979 (15.05.1979), abstract, figures --	1-11
A	US 4846228 A (BLANSCET), 11 July 1989 (11.07.1989), abstract, figures --	1-11
A	US 2003000588 A1 (KUYKENDAL ET AL), 2 January 2003 (02.01.2003), abstract, figures --	1-11
A	US 3430659 A (H.I. HENDERSON), 4 March 1969 (04.03.1969), abstract, figures -----	1-11

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

19 May 2004

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10-06-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Jenny Petersson / JA A
Telephone No. +46 8 782 25 00

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US	4154264	A	15/05/1979	NONE
US	4846228	A	11/07/1989	NONE
US	2003000588	A1	02/01/2003	NONE
US	3430659	A	04/03/1969	NONE